

APPENDIX N TO PART 110—ILLUSTRATIVE LIST OF LITHIUM ISOTOPE SEPARATION FACILITIES, PLANTS AND EQUIPMENT UNDER NRC'S EXPORT LICENSING AUTHORITY

a. Facilities or plants for the separation of lithium isotopes.

b. Equipment for the separation of lithium isotopes, such as:

- (1) Packed liquid-liquid exchange columns especially designed for lithium amalgams;
- (2) Mercury and/or lithium amalgam pumps;
- (3) Lithium amalgam electrolysis cells;
- (4) Evaporators for concentrated lithium hydroxide solution.

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APPENDIX O TO PART 110—ILLUSTRATIVE LIST OF FUEL ELEMENT FABRICATION PLANT EQUIPMENT AND COMPONENTS UNDER NRC'S EXPORT LICENSING AUTHORITY

NOTE: Nuclear fuel elements are manufactured from source or special nuclear material. For oxide fuels, the most common type of fuel equipment for pressing pellets, sintering, grinding and grading will be present. Mixed oxide fuels are handled in glove boxes (or equivalent containment) until they are sealed in the cladding. In all cases the fuel is hermetically sealed inside a suitable cladding which is designed to be the primary envelope encasing the fuel so as to provide suitable performance and safety during reactor operation. Also, in all cases precise control of processes, procedures and equipment to extremely high standards is necessary in order to ensure predictable and safe fuel performance.

(a) Items that are considered especially designed or prepared for the fabrication of fuel elements include equipment that:

- (1) Normally comes in direct contact with, or directly processes or controls, the production flow of nuclear material;
- (2) Seals the nuclear material within the cladding;
- (3) Checks the integrity of the cladding or the seal; and
- (4) Checks the finished treatment of the sealed fuel.

(b) This equipment or systems of equipment may include, for example:

- (1) Fully automatic pellet inspection stations especially designed or prepared for checking final dimensions and surface defects of fuel pellets;
- (2) Automatic welding machines especially designed or prepared for welding end caps onto the fuel pins (or rods);
- (3) Automatic test and inspection stations especially designed or prepared for checking

the integrity of completed fuel pins (or rods). This item typically includes equipment for:

- (i) X-ray examination of pin (or rod) end cap welds;
- (ii) Helium leak detection from pressurized pins (or rods); and
- (iii) Gamma-ray scanning of the pins (or rods) to check for correct loading of the fuel pellets inside.

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PART 140—FINANCIAL PROTECTION REQUIREMENTS AND INDEMNITY AGREEMENTS

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AUTHORITY: Secs. 161, 170, 68 Stat. 948, 71 Stat. 576, as amended (42 U.S.C. 2201, 2210);

10 CFR Ch. I (1–1–05 Edition)

secs. 201, as amended, 202, 88 Stat. 1242, as amended, 1244 (42 U.S.C. 5841, 5842); sec. 1704, 112 Stat. 2750 (44 U.S.C. 3504 note).

SOURCE: 25 FR 2944, Apr. 7, 1960, unless otherwise noted.

Subpart A—General Provisions

§ 140.1 Purpose.

The regulations in this part are issued to provide appropriate procedures and requirements for determining:

(a) The financial protection required of licensees and for the indemnification and limitation of liability of certain licensees and other persons pursuant to section 170 of the Atomic Energy Act of 1954, as amended; and

(b) The liability insurance required of uranium enrichment facility licensees pursuant to section 193 of the Atomic Energy Act of 1954, as amended.

[57 FR 18394, Apr. 30, 1992]

§ 140.2 Scope.

(a) The regulations in this part apply:

(1) To each person who is an applicant for or holder of a license issued pursuant to 10 CFR parts 50 and 54 of this chapter to operate a nuclear reactor, and

(2) With respect to extraordinary nuclear occurrences, to each person who is an applicant for or holder of a license to operate a production facility or a utilization facility, and to other persons indemnified with respect to such facility.

(3) To each person licensed pursuant to part 70 of this chapter to possess and use plutonium in a plutonium processing and fuel fabrication plant.

(4) To each person licensed pursuant to parts 40 and 70 of this chapter to construct and operate a uranium enrichment facility.

(b)(1) Subpart B of this part does not apply to any person subject to subparts C or D of this part. Subpart C of this part applies only to persons found by the Commission to be Federal agencies. Subpart D of this part applies only to persons found by the Commission to be nonprofit educational institutions with respect to licenses and applications for